Project Design Phase- II
Technology Stack (Architecture &Stack)

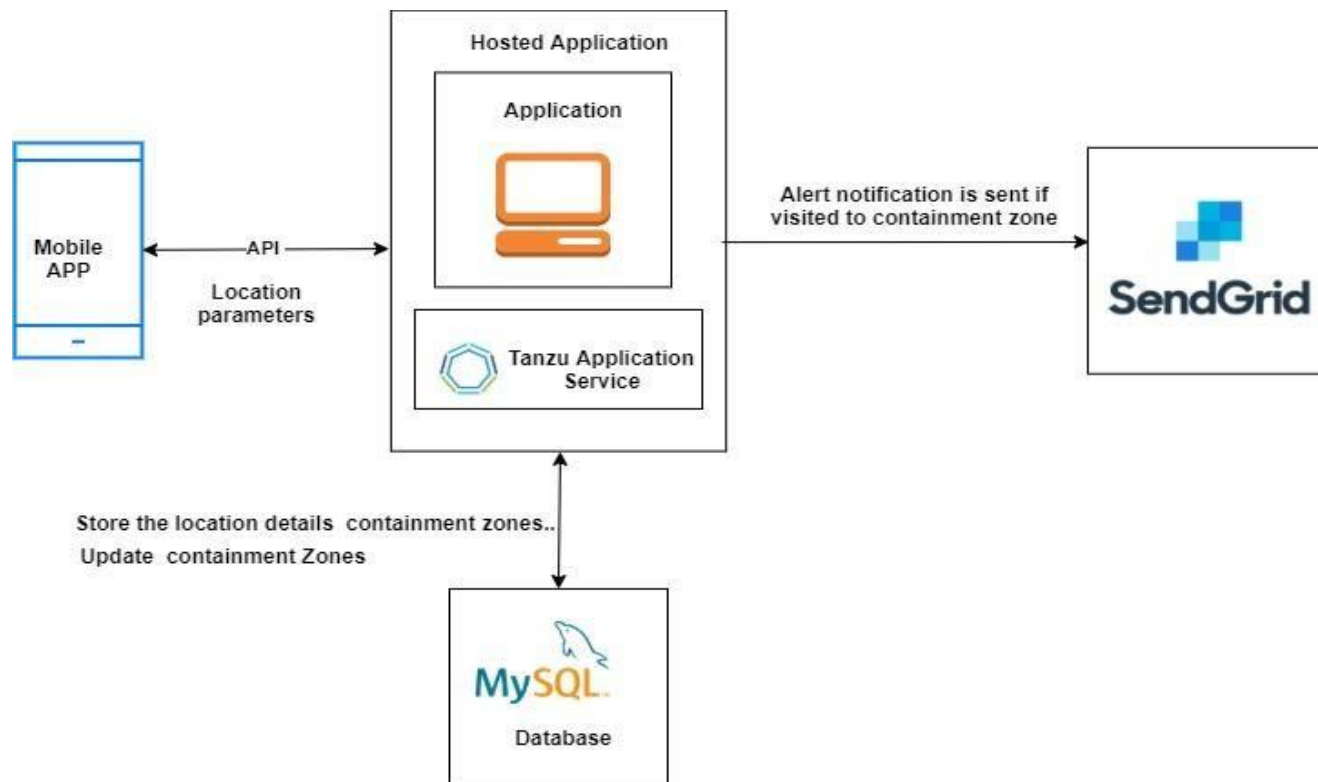| Date	12 November 2022
Team I D	PNT2022TMID09940
Project Name	Containment zone alerting application
Maximum Marks	4 Marks

Technical Architecture:

Table- 1 :
Component s

& Technologies:

S.No	Component	Description	Technology
1.	User Interface	Interaction of user to the mobile interface (i.e- developers)	HTML, CSS, JavaScript / Angular JS /React JS etc.
2.	Application Logic- 1	Logic that been kick started fi st for the process in the application.	Java / Python
3.	Application Logic- 2	Intermediate Logic for t he process in the application	I BM Watson STT service
4.	Application Logic- 3	Logic which came Last which is not least for the process in t he application	I BM Watson Assistant
5.	Database	Storing purposes.	MySQL, No SQL, etc.
6.	Cloud Database	Database Service on IBM Cloud	I BMDB2, I BM Cloudant etc.
7.	File Storage	Storage requirement s	IBM Block Storage or Other Storage Service or Local Files System
8.	External API - 1	API used external in the application	Google API , etc.
9.	External API - 2	API used external in the application	Aadhar API , etc.
10.	Machine Learning Model	Machine learning is mostly used for AI purposes(i.e: Recognition)	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System/ Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table- 2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open- Source Frameworks	Software designed to be publicly accessible in decentralized and collaborative way.	Technology of Opensource framework
2.	Security Implementations	It is used to provide security for the user byproviding various technologies (i.e : signature for text or data files)	e.g. SHA- 256, Encryptions, IAM Controls, OWASPetc.
3.	Scalable Architecture	Scalability is provided.(Micro- services)	Cloud , IBM object storage
4.	Availability	Use of cloud makes it available on the go anywhere and anyplace.	Cloud
5.	Performance	Design consideration is the must because there are numerous app but in what way our app is should be known is mandatory. (speed, number of requests per sec, use of Cache, use of CDN's) etc.	SendGrid